

IN THE SPECIFICATION:

Please replace the paragraph beginning on page 11, line 7 with the following paragraph:

Although there is no particular limitation to plasticizer, having the aforementioned high-molecular solid electrolyte as the gel electrolyte, it is desirable to use a non-aqueous solvent not liable to undergo a decomposition reaction within the operating potential range of the lithium secondary cell. For example, a non-aqueous solvents, such as ethylene carbonate, propylene carbonate, gamma a-butyrolactone, acetonitrile, diethylether, diethyl carbonate, dimethylcarbonate, 1,2-dimethoxyethane, dimethyl sulfoxide, 1, 3-dioxolan, methyl sulfonate, 2-methyltetrahydrofuran, tetrahydrofuran, sulforan, 2, 4-difluoroanisole or vinylene carbonate, may be used alone or as a mixture.

Please replace the paragraph beginning on page 17, line 17 with the following paragraph:

A solution obtained on mixing and dissolving 30 parts by weight of a plasticizer, composed of 31 parts by weight of ethylene carbonate, 41 parts by weight of propylene carbonate, 10 parts by weight of gamma a-butyrolactone, 15 parts by weight of LiPF_6 and 3 parts by weight of 1, 4-cyclohexadiene, 10 parts by weight of poly(vinylidene fluoride-co-hexafluoropropylene) and 60 parts by weight of diethyl carbonate, was evenly coated on and impregnated in the negative and positive electrodes, and allowed to stand at room temperature for eight hours to produce a gel electrolyte after vaporizing off diethyl carbonate.

Please replace the paragraph beginning on page 18, line 15 with the following paragraph:

AB A cell was prepared in the same way as the sample 1 except setting the composition of the plasticizer used in preparing the gel electrolyte to 27 parts by weight of ethylene carbonate, 36 parts by weight of propylene carbonate, 9 parts by weight of gamma a-butyrolactone, 15 parts by weight of LiPF₆ and to 13 parts by weight of 1, 4-cyclohexadiene.

Please replace the paragraph beginning on page 19, line 7 with the following paragraph:

ay A solution obtained on mixing and dissolving 30 parts by weight of a plasticizer, composed of 32.2 parts by weight of ethylene carbonate, 42.2 parts by weight of propylene carbonate, 10 parts by weight of gamma a-butyrolactone, 15 parts by weight of LiPF₆ and 0.6 part by weight of 1, 4-cyclohexadiene, 10 parts by weight of poly(vinylidene fluoride-co-hexafluoropropylene) and 60 parts by weight of diethyl carbonate, was evenly coated on and impregnated in the positive electrode, and allowed to stand at room temperature for eight hours to produce a gel electrolyte after vaporizing off diethyl carbonate.

Please replace the paragraph beginning on page 19, line 15 with the following paragraph:

AB A solution obtained on mixing and dissolving 30 parts by weight of a plasticizer, composed of 31.3 parts by weight of ethylene carbonate, 41.3 parts by weight of propylene carbonate, 10 parts by weight of gamma a-butyrolactone, 15 parts by weight of LiPF₆ and 2.4 part by weight of 1, 4-cyclohexadiene, 10 parts by weight of poly(vinylidene fluoride-co-hexafluoropropylene) and 60 parts by weight of diethyl carbonate, was evenly coated on and impregnated in the positive electrode, and allowed to stand at room temperature for eight hours to produce a gel electrolyte after vaporizing off diethyl carbonate.

Please replace the paragraph beginning on page 20, line 15 with the following paragraph:

Ab

A cell was prepared in the same way as the sample 1 except setting the composition of the plasticizer used in preparing the gel electrolyte to 27 parts by weight of ethylene carbonate, 36 parts by weight of propylene carbonate, 9 parts by weight of gamma α -butyrolactone, 15 parts by weight of LiPF₆ and to 13 parts by weight of 1, 4-cyclohexadiene.